	L#	Hits	Search Text	DBs
1	L1	0	<pre>interphase? and chromosome? adj5 break?</pre>	USPAT
2	L2	0	<pre>interphase? and (chromosome? adj5 break?)</pre>	USPAT
3	L3	12	chromosome? adj5 break?	USPAT

(FILE 'HOME' ENTERED AT 09:26:34 ON 09 NOV 2000)

```
FILE 'MEDLINE' ENTERED AT 09:26:41 ON 09 NOV 2000
L1
         199463 S CHROMOSOME?
         661077 S BREAK? OR DAMAG? OR PIECE? OR MARK?
L2
L3
          40667 S L1 AND L2
L4
            227 S L3 AND CAFFEINE
L5
            205 S L4 AND (BREAK? OR DAMAG?)
L6
             15 S L5 AND (ALZHEIMER? OR DISEASE)
L7
          19942 S L3 AND (VIVO OR CELL)
rs
             7 S L7 AND DNTP
           2501 S L7 AND (DNTP OR FLUORESCEN?)
L9
              0 S L8 AND (ALZHEIMER? OR DISEASE?)
Ļ10
           2069 S L3 AND (FLUORESCEN? OR LABEL? OR DNTP? OR DUTP?) (P) (VIVO
L11
OR
L12
           788 S L3 AND (FLUORESCEN? OR LABEL? OR DNTP? OR DUTP?) (10A)
(VIVO
L13
            109 S L12 AND (ALZHEIMER? OR DISEASE?)
L14
              0 S L13 AND CAFFEINE
L15
          10083 S L3 AND (BREAK?)
L16
           1872 S CHROMOSOME BREAK?
```

FILE 'STNGUIDE' ENTERED AT 10:05:10 ON 09 NOV 2000

ANSWER 29 OF 38 MEDLINE ACCESSION NUMBER: 93061079 MEDLINE DOGUMENT NUMBER: 93061079 TITLE: Chromosome aberrations of human small cell lung cancer induced by a new 111In-bleomycin complex. AUTHOR: Hou D Y; Maruyama Y; Drago J R Department of Radiation Medicine, University of Kentucky CORPORATE SOURCE: Medical Center, Lexington. CONTRACT NUMBER: `RR05374 (NCRR) SOURCE: JOURNAL OF SURGICAL ONCOLOGY, (1992 Dec) 51 (4) 236-42. Journal code: K79. ISSN: 0022-4790. PUB. COUNTRY: United States Journal; Article; (JOURNAL ARTICLE) LANGUAGE: English FILE SEGMENT: Priority Journals; Cancer Journals ENTRY MONTH: 199302 A new 111Indium labeled bleomycin complex (111In-BLMC) was prepared and found to be effective for tumor imaging and therapy both in mouse glioma and human small cell lung cancer (SCLC) cells. Chromosome aberrations were studied in human SCLC cells to explore its mechanisms of killing cancer cells. SCLC cells (N417) were exposed to 111In-BLMC, BLM, or 111InCl3 (for control) for 1 hour, treated with colcemid, and chromosomal changes were analyzed. A dramatic increase in chromatic gaps, breaks, chromosome breaks, double minutes, rings, triradii, quadriradii, and chromosome stickiness were observed in the cells treated by 111 Fn-BLMC compared to BLM or 111InCl3. These results that 111In-BLMC has therapeutic potential for combination chemo-radiotherapy of cancer (e.g., by Auger electrons and local energy deposition). ANSWER 21 OF 38 MEDLINE ACCESSION NUMBER: 97148810 MEDLINE DOCUMENT NUMBER: 97148810 TITLE: Cellular and subcellular studies of the radiation effects of Auger electron-emitting estrogens. AUTHOR: DeSombre E R; Hughes A; Landel C C; Greene G; Hanson R; Schwartz J L CORPORATE SOURCE: Ben May Institute, University of Chicago, IL 60637, USA.. gdesombr@ben-may.bsd.uchicago.edu CONTRACT NUMBER: CA 14599 (NCI) SOURCE: ACTA ONCOLOGICA, (1996) 35 (7) 833-40. Journal code: AON. ISSN: 0284-186X. PUB. COUNTRY: Norway Journal; Article; (JOURNAL ARTICLE) LANGUAGE: English FILE SEGMENT: Priority Journals; Cancer Journals ENTRY MONTH: 199704 ENTRY WEEK: 19970401 We studied the effect of 123I-labeled estrogen (123I-E) in estrogen receptor (ER)-rich cells in culture and in cell

free model systems in **vitro** to elucidate the nature of the radiotoxicity for ER + **cells** of estrogens containing nuclides which emit Auger electrons. In **cells** the 123I-E caused a

aberrations. A dose of about 1000 decays per cell, which is

dose-dependent, unlabeled estrogen-inhibitable induction of chromosome

approximately the mean lethal dose for these cells, resulted in an average of 1 comosome break per cell. This supports the hypothesis that the lethal lesi induced by 123I-E is

chromosome break. Incubation of 123I-E/ER complex, but not 123I-E alone, with 27-mer duplex estrogen response element (ERE) DNA produced a dose-dependent cleavage of the ERE. However, we were unable to detect any fragmentation of either the 66 kDa full length ER in cell extracts or a purified 31 kDa hormone binding domain when incubated with excess 1231-E. Thus it appears that 1231-E effects its radiotoxicity by binding to ER, associating with ERE DNA and, by

high LET radiation to DNA, inducing lethal chromosome breaks.

ANSWER 13 OF 38 MEDLINE

ACCESSION NUMBER: 1998305731 MEDLINE

DOCUMENT NUMBER: 98305731

TITLE: Induction of apoptosis by bleomycin in resting and cycling

human lymphocytes.

Vernole P; Tedeschi B; Caporossi D; Maccarrone M; Melino AUTHOR:

Annicchiarico-Petruzzelli M

CORPORATE SOURCE: Dipartimento di Sanit'a Pubblica e Biologia Cellulare,

Universit`a di Tor Vergata, Roma, Italy. MUTAGENESIS, (1998 May) 13 (3) 209-15.

SOURCE:

Journal code: MUG. ISSN: 0267-8357.

PUB. COUNTRY: ENGLAND: United Kingdom

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199906 ENTRY WEEK: 19990603

Bleomycin induces DNA and chromosome breakage. The differential sensitivity to the drug has been used in vitro to identify individuals at high risk of developing tumours. However, there are limited reports on the ability of bleomycin to induce apoptosis. In this study we tested induction of apoptosis in human peripheral lymphocytes by bleomycin at different concentrations and different

times using various parameters, such as nuclear fragmentation and DNA fragmentation, evaluated either in situ with terminal transferase and labelled nucleotides (TUNEL) or by flow cytometry analysis. We demonstrate that bleomycin induces apoptosis without previous permeabilization of the cell membrane. Cell death occurs mainly by apoptosis and not by necrosis, with significant alteration of membrane lipoperoxidation (evaluated by luminescence).

ANSWER 11 OF 38 MEDLINE

ACCESSION NUMBER: 1998377119 MEDLINE

DOCUMENT NUMBER: 98377119

TITLE: Influence of serum micronutrients on the incidence of

kinetochore-positive or -negative micronuclei in human

peripheral blood lymphocytes.

AUTHOR: Odagiri Y; Uchida H

CORPORATE SOURCE: Division of Human and Health Sciences, Yamanashi

Prefectural College of Nursing, Japan..

byi04452@niftyserve.or.jp

SOURCE: MUTATION RESEARCH, (1998 Jul 8) 415 (1-2) 35-45. Journal code: NNA. ISSN: 0027-5107.

PUB. COUNTRY: Netherlands

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals; Cancer Journals

ENTRY MONTH: 199811 ENTRY WEEK: 19981103

The possible considution of some selected serum cronutrients (beta-carotene, tamins B12 and C, folic acid an alpha-tocopherol) to spontaneous chromosomal damage was investigated in human peripheral blood lymphocytes from 33 non-smoking healthy donors by the cytokinesis-block micronucleus assay. Labelling of micronuclei with antikinetochore serum was used to discriminate between kinetochore-positive and -negative micronuclei and thus between micronuclei which arise from whole chromosome loss and those which arise from chromosome breaks. Simple correlation analysis showed that age was significantly associated with the increased frequency of micronucleated cells, and this age-related increase in these cells was due to the increase in cells with both

kinetochore-positive and -negative micronuclei. Serum micronutrient levels

had no apparent significant effects on incidence of micronucleated cells except for the weak positive correlation between vitamin B12 levels and frequency of kinetochore-positive micronucleated cells . Multiple regression analysis with age and serum micronutrient levels as independent variables showed that (a) age was the most influential variable for the frequency of micronucleated cells, (b) the serum vitamin C level was associated with increased frequency of spontaneous micronucleated ${\tt cells}$, and this increase was mainly due to the increase in ${\tt cells}$ with kinetochore-positive micronuclei, and (c) the serum folic acid level was significantly and negatively related to the frequencies of cells with both kinetochore-positive and -negative micronuclei. To avoid the predominant age-effect, we also performed separate multiple regression analysis with age-adjusted frequency of micronucleated cells as dependent variable. The results from this analysis again showed a significant and positive effect of serum vitamin C level on age-adjusted frequency of kinetochore-positive micronucleated cells, while marginal negative effect of folic acid on age-adjusted frequency of total micronucleated cells (P < 0.06) and kinetochore-positive micronucleated cells (P < 0.051) was detected. These results suggest that age and serum vitamin C are definitely variables for frequencies of spontaneous chromosome loss, and that serum folic acid is perhaps another important micronutrient which influence the frequency of spontaneous chromosomal damage.

(FILE 'HOME' ENTERED AT 15:05:07 ON 17 MAY 2000)

FILE 'MEDLINE' ENTERED AT 15:05:11 ON 17 MAY 2000

L127222 S ALZHEIMER?

L2 193974 S CHROMOSOME?

97190 S (PHYTOHEMAGGLUTIN OR POKEWEED OR MITOGEN OR UV OR L3

NITROQUINOL

L47 S L1 AND L2 AND L3

2416 S CHROMOSOME? (7A) (INSTABIL? OR FRAGI? OR HYPERSENSITIV? OR L5

RA

L6 7 S L5 AND L1

FILE 'CAPLUS' ENTERED AT 15:11:56 ON 17 MAY 2000

L7 6 S L6

FILE 'MEDLINE' ENTERED AT 15:14:05 ON 17 MAY 2000

L8 35 S L5 AND L3

	LE 'MEDLINE, BIOSIS, CAPLUS, EMBASE, SCISEARCH' ENTERED AT 14:02:51 ON 26 APR 2000
	E STONE J/AU
$_{ m L1}$	1503 S E3
L2	209 S E13
	E STONE JOHN/AU
L3	17 S E3
L4	21 S E15
L5	1750 S L1 OR L2 OR L3 OR L4
L6	535 S L5 AND (CHROMOSOME OR CELL? OR REPAIR RETARDING AGENT)
L7	1 S L6 AND (MITOGEN)
rs	146437 S MITOGEN
L9	10421653 S CELL? OR IN SITU OR INSITU
L10	706476 S CHROMOSOME?
L11	1834 S L8 AND L9 AND L10
L12	0 S L11 AND (FIX AND REPAR (3A) RETARD? (3A) AGENT?)
L13	374 S L11 AND (MARK? OR LABEL? OR FLUORSECEN?)
L14	1 S L13 AND ALZHEIMER?

adoris

From:

Goldberg, Jeanine

Sent:

Tuesday, November 14, 2000 8:08 AM

To:

STIC-ILL

Subject:

please pull- chromosome

1. MUTATION RESEARCH, (1999 Sep 30) 445 (2) 155-66. Journal code: NNA. ISSN: 0027-5107.

- 2. INTERNATIONAL JOURNAL OF RADIATION BIOLOGY, (1994 Aug) 66 (2) 133-42.
- 3. INTERNATIONAL JOURNAL OF RADIATION BIOLOGY, (1994 Aug) 66 (2) 133-42
- 4. INTERNATIONAL JOURNAL OF RADIATION BIOLOGY, (1993 May) 63

 (5) 617-22.
- 5. MUTATION RESEARCH, (1996 Jun 12) 353 (1-2) 11-46. Ref: 90 Journal code: NNA. ISSN: 0027-5107.

THANK YOU

Jeanine Enewold Goldberg 1655 CM1--12D11 306-5817 BIO

adomis \$12.

From:

Goldberg, Jeanine

Sent:

Tuesday, November 14, 2000 8:08 AM

To:

STIC-ILL

Subject:

please pull- chromosome

MUTATION RESEARCH, (1999 Sep 30) 445 (2) 155-66. Journal code: NNA. ISSN: 0027-5107.

2. INTERNATIONAL JOURNAL OF RADIATION BIOLOGY, (1994 Aug) 66 (2) 133-42.

3. INTERNATIONAL JOURNAL OF RADIATION BIOLOGY, (1994 Aug) 66 Dupe of # 2

(5) 617-22.

5. MUTATION RESEARCH, (1996 Jun 12) 353 (1-2) 11-46. Ref: 90 Journal code: NNA. ISSN: 0027-5107.

THANK YOU

Jeanine Enewold Goldberg 1655 CM1--12D11 306-5817

STIC-ILL OH431. M97

From:

Goldberg, Jeanine

Sent:

Tuesday, November 14, 2000 8:08 AM

To:

STIC-ILL

Subject:

please pull- chromosome

1. MUTATION RESEARCH, (1999 Sep 30) 445 (2) 155-66. Journal code: NNA. ISSN: 0027-5107.

- 2. INTERNATIONAL JOURNAL OF RADIATION BIOLOGY, (1994 Aug) 66 (2) 133-42.
- 3. INTERNATIONAL JOURNAL OF RADIATION BIOLOGY, (1994 Aug) 66 (2) 133-42.
- 4. INTERNATIONAL JOURNAL OF RADIATION BIOLOGY, (1993 May) 63 (5) 617-22.
- 5. MUTATION RESEARCH, (1996 Jun 12) 353 (1-2) 11-46. Ref: 90 Journal code: NNA. ISSN: 0027-5107.

THANK YOU

Jeanine Enewold Goldberg 1655 CM1--12D11 306-5817

DH431. M97

From:

Goldberg, Jeanine

Sent:

Tuesday, November 14, 2000 8:08 AM

To:

STIC-ILL

Subject:

please pull- chromosome

1. MUTATION RESEARCH, (1999 Sep 30) 445 (2) 155-66. Journal code: NNA. ISSN: 0027-5107.

- 2. INTERNATIONAL JOURNAL OF RADIATION BIOLOGY, (1994 Aug) 66 (2) 133-42.
- 3. INTERNATIONAL JOURNAL OF RADIATION BIOLOGY, (1994 Aug) 66 (2) 133-42.
- 4. INTERNATIONAL JOURNAL OF RADIATION BIOLOGY, (1993 May) 63 (5) 617-22.
- 5. MUTATION RESEARCH, (1996 Jun 12) 353 (1-2) 11-46. Ref: 90 Journal code: NNA. ISSN: 0027-5107.

THANK YOU

Jeanine Enewold Goldberg 1655 CM1--12D11 306-5817

2/666

From:

Goldberg, Jeanine

Sent:

Tuesday, November 28, 2000 12:51 PM

To:

STIC-ILL

Subject:

please pull chromosome references

1. Mutagenesis, Vol 12, pg 449-455, 1997.

THANK YOU

Jeanine Enewold Goldberg 1655 CM1--12D11 306-5817

0267-8357

DL-ND WAU 11/30